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**INFORMATION DISCLOSURE  
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Sheet 1 of 12

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Application Number	10/591,730
Filing Date	February 26, 2007
First Named Inventor	Dong-Seok Suh
Art Unit	1724
Examiner Name	Arun S. Phasge
Attorney Docket Number	21724-003US1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4585652	04-29-1986	Miller et al.	
		US- 5079674	01-07-1992	Francis P. Malaspina	
		US- 5429893 A	07-04-1995	George Thomas	
		US- 5518836	05-21-1996	Francis P. McCullough	
		US- 5705259	01-06-1998	Mrotek et al.	
		US- 6261469	07-17-2001	Zakhidov, et al.	
		US- 6493210	12-10-2002	Nonaka, et al.	
		US- 2003/0211637	11-13-2003	Schoeniger et al.	
		US- 6795293	09-21-2004	Timonov et al.	
		US- 7061749	06-13-2006	Liu et al.	
		US- 7167355	01-23-2007	Zheng Chen	
		US- 7541715	06-02-2009	Chiang, et al.	
		US- 7897030	03-01-2011	Suh, et al.	
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FOREIGN PATENT DOCUMENTS					
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
		WO 2004/009884	01-29-2001	Rinzler, et al.	

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		AREPALLI, et al; "Carbon-Nanotube-Based Electro-chemical Double-Layer Capacitor Technologies for Spaceflight Applications"; JOM, December 2005; pp. 26-31	
		FRACKOWIAK, E., et al; "Carbon Materials for the Electrochemical Storage of Energy in Capacitors"; Carbon; July 2000; pp. 937-950	
		HUGHES, M., et al; "Electrochemical Capacitance of a Nanoporous Composite of Carbon Nanotubes and Polypyrrole; Chemical Materials, Vol 14, February 2002; pp. 1610-1613	
		KHOMENKO, V., et al; "Determination of the Specific Capacitance of Conducting Polymer/Nanotubes Composite Electrodes using Different Cell Configurations; Electrochimica Acta, Vol. 50, December 2004; pp. 2499-2506	
		LEWIS, T.D.; "Interfaces are the Dominant Feature of Dielectrics at the Nanometric Level"; IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 11, No. 5; October 2004; pp. 739-753	
		SUNG, et al.; "Fabrication of all-solid-state Electrochem-ical Microcapacitors"; Journal of Power Sources, Vol. 133; April <del>2004</del> 2004; pp. 312-319	

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		ALBERTI, G. et al, "Solid State Protonic Conductors, Present Main Applications and Future Prospects"; Solid State Ionics, Vol. 145, pp. 3-16; 12/01/2001; Elsevier Science; NL	
		ALBERTI, G. et al., "Polymeric Proton Conducting Membranes for Medium Temperature Fuel Cells (110-160°C)"; J of Membrane Sci; Vol. 185, pp. 73-81; 04/15/2001; Elsevier Science; NL	
		AN, K.H. Et al. "Electrochemical Properties of High-Power Supercapacitors Using Single-Walled Carbon Nanotube Electrodes" Advanced Functional Materials; Vol. 11, pp. 387 - 392; 05/1/2001; John Wiley & Sons, Inc.; US <b>unable to read the entry.</b>	
		ANTONUCCI, P.L. et al., "Investigation of a direct methanol fuel cell based on a composite Nafion®-silica electrolyte for high temperature operation"; Solid State Ionics Vol. 125, no month 1999; pp.431-437; Elsevier Science B.V.; Amsterdam, The Netherlands <b>unable to read the entry.</b>	
		ASAMITSU, A; et al., "Current switching of resistive states in magnetoresistive manganites"; Nature Vol. 388, No. 6637; 07/03/1997, pp 50-52; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		BACHILO, S.M. et al. "Narrow (n,m)-Distribution of Single-Walled Carbon Nanotubes Grown Using a Solid Supported Catalyst" J[A/C]S Communications; Vol. 125, pp. 11186-11187; 08/21/2003; Journal of the American Chemical Society, US	
		BAHNSCH, J.N. et al. "Increased Activation Rate of Electro-mechanical Carbon Nanotube Actuators" (being a patent application for a composite material) Journal of Solid State Ionics and Structures, Vol. 14, no month 2001; pp. 247-253; Elsevier Science B.V.; Amsterdam, The Netherlands <b>cannot make out the entry.</b>	
		BAUGHMAN, R.H. "Muscles Made from Metals"; Science 300, 04/11/2003; pp 268-269; American Association for the Advancement of Science, Washington, DC; US	
		BAUGHMAN, R.H. et al, "Carbon Nanotubes - The Route Towards Applications"; Science 297, 08/02/2002; pp 787-792; American Association for the Advancement of Science, Washington, DC; US	
		BAUGHMAN, R.H. et al., "Carbon Nanotube Actuators"; Science 284, 05/21/1999; pp 1340 -1344; American Association for the Advancement of Science, Wash-ington, DC; US	

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Examiner Name	Arun S. Phasge
Attorney Docket Number	21724-003US1

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		BAUGHMAN, R.H., "Conducting Polymer Artificial Muscles"; Synthetic Metals 78, no month, 1996, pp 339-353; Elsevier Science B.V.; Amsterdam, The Netherlands	
		BOWER, C. et al., "Plasma-induced alignment of carbon nanotubes"; Applied Physics Letters, Vol. 77, No. 6; 08/07/2000; pp. 830-832; American Institute of Physics; US	
		BOZKURT, A. et al., "Proton-conducting polymer elec-trolytes based on phosphoric acid; Solid State Ionics 125, no month, 1999; pp 225-233; Elsevier Science B.V.; Amsterdam, The Netherlands	
		BURGMAYER, et al., "Ion Gate Electrodes, Polypyrrole as a Switchable Ion Conductor Membrane"; Journal of Physical Chemistry, Vol. 88, 06/1984; pp 2515-2521; American Chemical Society; US	
		CAMPBELL, J.K. et al., "Electrochemistry Using Single Carbon Nanotubes"; J. Am. Chem. Soc.; Vol. 121(15); 04/02/1999; pp 3779-3780; American Chemical Society	
		CASELL, A.M. et al., "Combinatorial chips for optimiz-ing the growth and integration of carbon nanofiber based devices"; Nanotechnology B15, 11/10/2003; pp 9-15; Institute of Physics Publishing; IOP Publishing Ltd.; UK	
		CASELL, A.M. et al., "Combinatorial Optimization of Heterogeneous Catalysts Used in the Growth of Carbon Nanotubes"; Langmuir 17; 11/18/2000; pp 260-264; American Chemical Society	
		CHE, G. et al., "Carbon Nanotube Membranes for Elec-trochemical Energy Storage and Production"; Nature 393; May 28, <del>2000</del> , pp 346-349; Nature Publishing Group, Macmillan Publishers Ltd; US 2008	
		CHOI, Y.S. et al., "An under-gate triode structure field emission display with carbon nanotube emitters"; Di-iamond and Related Materials 10; pp 1705-1708; no month, 2001; Elsevier Science B.V.; Amsterdam, The Netherlands	
		COLLINS, P. et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown"; Science 292, pp 706-709, April 27, 2001; American Association for the Advancement of Science, Washington, DC; US	

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		DAI, Hongjie; "Carbon Nanotubes: Synthesis, Integra-tion, and Properties" Accounts Chemical Research 35, pp 1035-1044; August 7, 2002; American Chemical Society, US	
		DUAN, et al, "General Synthesis of Compound Semicon-ductor Nanowires"; Advanced Materials Vol. 12, No. 4; pp 298-302; no month, 2000WILEY-VCH Verlag GmbH; DE	
		DUESBERG, G.S. et al., "Growth of Isolated Carbon Nanotubes with Lithographically Defined Diameter and Location"; Nano Letters Vol. 3, No. 2; pp 257-259; Jan-uary 25, 2003; American Chemical Society, US	
		EKIMOV, E.A. et al., "Superconductivity in Diamond"; Nature, Vol 428., pp 542-545; April 1, 2004; Nature Pub-lishing Group; Macmillan Publishers Ltd.; US	
		ERLEBACKER, J. et al., "Evolution of nanoporosity in Dealloying"; Nature, Vol. 410, pp 450-453; March 22, 2001; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		FAN, S. et al., "Self-Oriented Regular Arrays of Carbon Nanotubes and Their Field Emission Properties; Science, Vol. 283, pp 512-514; January 22, 1999; American As-sociation for the Advancement of Science; US	
		FIEBIG, M., et al., "Visualization of the Local Insulator-Metal Transition in Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> "; Science, Vol. 280 pp 1925-1928; June 19, 1998; American Association for the Advancement of Science; US	
		GANGLOFF, L. et al., "Self-Aligned, Gated Arrays of Individual Nanotube and Nanowire Emitters"; Nano Letters, Vol. 4, pp 1575-1579; July 29, 2004; American Chemical Society; US	
		GATES et al., "A Solution-Phase Approach to the Syn-thesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 10-30 nm"; J. Am. Chem. Soc. 122, pp 12582-12583, December 1, 2000; American Chemical Society; US	
		GOFFER, Y. et al., "An all-polymer charge storage device"; Applied Physics Letters 71, pp 1582-1584; September 15, 1997; American Institute of Physics; US	

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		GOLDBERGER, J. et al.; "Single-crystal gallium nitride nanotubes"; Nature Vol 422, pp 599-602; April 10, 2003; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		GU, G. et al., "V[sub]2O[sub]5 nanofibre sheet actuators"; Nature Materials Vol. 2, pp 316-319; April 20, 2003; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		HADDON, R.C. et al., "Purification and Separation of Carbon Nanotubes"; MRS Bulletin Vol. 29, pp 252-259; April 2004; Material Research Society; US	
		HAFNER, J.H. et al., "Growth of nanotubes for probe microscopy tips"; Nature Vol. 398, pp 761-762; April 29, 1999; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		HAFNER, J.H. et al., "High-Yield Assembly of Individual Single-Walled Carbon Nanotube Tips for Scanning Probe Microscopies"; Journal of Physical Chem. Vol. 105, No. 4, pp 743-746; February 1, 2001; American Chemical Society; US	
		HSIOU, Y.F. et al., "Controlled placement and electrical contact properties of individual multiwalled carbon nanotubes on patterned silicon chips"; Applied Physics Letters Vol. 84, No. 6; pp 984-986; American Institute of Physics; US February 2004	
		HUANG, M.H. et al., "Room-Temperature Ultraviolet Nanowire Nanolasers"; Science 292, pp 1897-1899; June 8, 2001; American Association for the Advancement of Science; US	
		HUANG, S. et al., "Growth of Millimeter-Long and Horizontally Aligned Single-Walled Carbon Nanotubes on Flat Substrates"; J. Am. Chem. Soc. Vol. 125, pp 5636; April 22, 2003; American Chemical Society; US	
		JAVEY, A. Et al., "Carbon Nanotube Transistor Arrays for Multistage Complimentary Logic and Ring Oscillators"; Nano Letters, Vol. 2 No. 9; pp 929-932; July 31, 2002; American Chemical Society; US	
		JÓRISSAN, L. et al., "New membranes for direct methanol fuel cells"; J. Power Sources Vol. 105, pp. 267-273; Elsevier Science B.V.; NL (2002) no month	

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		KAMEOKA, J. et al. "A scanning tip electrospinning source for deposition of oriented nanobifires"; Nanotech-nology 14, pp 1124-1129; September 5, 2003; Institute of Physics Publishing; UK	
		KIM, P. et al., "Thermal Transport Measurements of In-dividual Multiwalled Nanotubes"; Phys. Rev. Letters Vol. 87, Number 21; pp 215502-1 to 215502-4; November 19, 2001; The American Physical Society; US	
		KIRYUKHIN, V., et. al., "An X-ray-induced insulator-metal transition in a magnetoresistive manganite"; Nature Vol. 386, pp 813-815; April 24, 1997; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		KRÜGER, M. "Electrochemical carbon nanotube field-effect transistor"; Applied Physics Letters Vol. 78, No. 9; pp 1291-1293; February 26, 2001; American Institute of Physics; US	
		KRUPKE, R. et al., "Simultaneous Deposition of Metallic Bundles of Single-walled Carbon Nanotubes Using Acdielctrohoreses"; Nano Letters Vol. 3, No. 8 pp 1019-1023; July 9, 2003; American Chemical Society; US	
		LI, B. et al.; "Raman spectral study of silicon nanowires"; Physical Review B; Vol. 59, No. 3; pp 645-1648; January 15, 1999; the American Physical Society; US	
		LI, J. et al., "Novel Three-Dimensional Electrodes: Elec-trochemical Properties of Carbon Nanotube Ensembles" J. Phys. Chem. B. 106.; pp 9299-9305; August 16, 2002; American Chemical Society; US	
		LI, W. et al.: "Preparation and Characterization of Multi-walled Carbon Nanotube-Supported Platinum for Ca-thode Catalysts of Direct Methanol Fuel Cells"; J. Phys. Chem. B 107; pp. 6292-6299; June 6, 2003; American Chemical Society; US	
		LI, Y. et al.; "Bismuth Nanotubes: A Rational Low-Temperature Synthetic Route"; J. Am. Chem. Soc. 123; pp 9904-9905; September 14, 2001; American Chemical Society; US	
		LIN, C.L. et al., "Protoinduced hole-doping effect in (Y <sub>sub</sub> 0.5Ca <sub>sub</sub> 0.5)Ba <sub>sub</sub> 2Cu <sub>sub</sub> 3O <sub>sub</sub> films"; Applied Physics Letters 71, pp 3284-3286; December 1, 1997; American Institute of Physics; US	

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Application Number	10/591,730
Filing Date	February 26, 2007
First Named Inventor	Dong-Seok Suh
Art Unit	1724
Examiner Name	Arun S. Phasge
Attorney Docket Number	21724-003US1

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		BRABEC, C. et al, editors: "Organic Photovoltaics: Concepts and Realization"; Springer Series in Materials Science Vol. 60, no month, 2003; Springer-Verlag; DE	
		DELZEIT, L. et al., "Growth of multiwall carbon nano-tubes in an inductively coupled plasma reactor"; J. Appl. Letters, Volume 91, No. 9; May 1, 2001; pp 6027-6033; American Institute of Physics; US	
		DING, B.G. et al., "Nanofabrication of Organic/Inorganic Hybrids of TiO <sub>2</sub> with Substituted Phthalocyanines or Polythiophene"; (abstract only); Journal of Nanoscience and Nanotechnology 1; No. 2; pp 207-213; June 2001; American Scientific Publishers; US	
		HAN, J.-H., "Growth characteristics of carbon nanotubes using platinum catalyst by plasma enhanced chemical vapor deposition"; (abstract only); Diamond and Related Materials, Vol. 12, pp 878-883; July 2003; Elsevier Science B.V.; NL	
		KINARET, J.M., et al.; "A carbon-nanotube-based nano-relay"; Applied Physics Letters; Vol 82, No. 8; February 24, 2003; pp 1287-1289; American Institute of Physics; US	
		LIU, J. et al., "Recent Advances in Methods of Forming Carbon Nanotubes"; MRS Bulletin 29, pp 244-250; April, 2004; Material Research Society; US	
		LIU, J. et al; "Fullerene Pipes; Science Vol. 280, pp 1253-1256; May 22, 1998; ; American Association for the Advancement of Science, Washington, DC; US	
		LIU, S.Q. et. al.; "Electric-pulse-induced reversible resistance change effect in magnetoresistive films"; Appl. Phys. Lett. Vol. 76, No. 19; pp 2749-2751; May 8, 2000; American Institute of Physics; US	
		LOO, C.L. et al.; "Nanoschell-enables Photonics-Based Imaging and Therapy of Cancer"; Technology in Cancer Research & Treatment Vol 3, No. 1, pp 33-40; February 2004; Adenine Press; US	
		MANNHART, J. et al; "Large electric field effects in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> films containing weak links"; Applied Physics Letters 62, pp 630-633; February 8, 1993; American Institute of Physics; US	

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		MICKELSON, et al.; "Packing C60 in Boron Nitride Nanotubes"; Science 300, pp 467-469; April 18, 2003; American Association for the Advancement of Science, Washington, DC; US	
		MILLIS, A.J., "Lattice effects in magnetoresistive manganese perovskites"; Nature Vol. 392, pp 147-151; March 12, 1998; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		MISEWICH, J.A. et al.; "Electrically Induced Optical Emission from a Carbon Nanotube FET"; Science Vol. 300, pp 783-786; May 2, 2003; American Association for the Advancement of Science, Washington, DC; US	
		MIYANO, K., et al.; "Photoinduced Insulator-to-Metal Transition in a Perovskite Manganite"; Phys. Rev. Letters, Vol. 78, No. 22; pp 4257-4260; June 2, 1997; American Physical Society; US	
		MOHANAN, J.L. et al.; "Porous Semiconductor Chalco-genide Aerogels"; Science Vol. 307, 397-399; January 21, 2005; American Association for the Advancement of Science, Washington, DC; US	
		MORIMOTO, Y. et al.; "Pressure effects on charge-ordering transitions in Perovskite manganites"; Physical Review B, Volume 55, No. 12; March 15, 1997; The American Physical Society; US	
		MORATTI, S.; "The Chemistry of Uses of polyphenylenevinyls"; Handbook of Conducting Polymers; 2nd Ed., Chapter 13; pp 343-361; Marcel Dekker, New York, 1998	
		NIU, C. et al.; "High power electrochemical capacitors based on carbon nanotube electrodes"; Appl. Phys. Letters, Vol. 70; pp1480-1482; March 17, 1997; American Institute of Physics; US	
		NORBY, T. "Solid-state protonic conductors: principles, properties, progress and prospects"; Solid State Ionics 125, pp 1-11; no month, 1999; Elsevier Science B.V.; Amsterdam, The Netherlands	

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		RAJESH, B. et al.; "Pt-WO <sub>3</sub> supported on carbon nano-tubes as possible anodes for direct methanol fuel cells"; Fuel 81, pp 2177-2190; July 9, 2002; Elsevier Science B.V.; Amsterdam, The Netherlands	
		RENEKER, D.H. et al.; "Nanometre diameter fibres of polymer, produced by electrospinning"; Nanotechnology 7, pp 216-223; no month, 1996; IOP Publishing; UK	
		RINZLER, A.G. et al.; "Large-scale purification of single-wall carbon nanotubes: process, product, and characterization"; Appl. Phys. A 67, pp 29-37; no month, 1998; Springer-Verlag; DE	
		SAKAI, J. et al.; "Switching effect perpendicular to the plane of Pr <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3-y</sub> thin films"; J. Appl. Phys. Vol. 90, No. 3; pp 1410-1413; August 1, 2001; American Institute of Physics; US	
		SALJGER, et al.; "High surface area carbon aerogels for supercapacitors"; Journal of Non-Crystalline Solids 225, pp 81-85; no month 1998; Elsevier Science B.V.; Amsterdam, The Netherlands	
		SCHINOHARA, H. et al.; "Electrically Stimulated Release of Neurotransmitter from a Conducting Polymer Thin Film on the Model of a Synapse"; Chemistry Letters, pp 179-182; no month, 1985; The Chemical Society of Japan; JP	
		SCHLÜTER, A.; "Synthesis of Poly(para-phenylene)s"; Handbook of Conducting Polymers; 2nd Ed.; Chapter 8; pp 209-224; Marcel Dekker, New York, 1998	
		SHIRAKAWA, H.; "Synthesis of Polyacetylene"; Handbook of Conducting Polymers; 2nd Ed., Chapter 7; pp 198-207; Marcel Dekker, New York, 1998	
		SLOAN, J. et al.; "Crystallisation inside fullerene related structures"; J. Materials Chemistry 7, pp 1089-1095; no month, 1997; Royal Society of Chemistry; London, GB	
		SOUNDARRAJAN, P. et al.; "Surface modification of aligned carbon nanotube arrays for electrochemical sensing applications"; in J. Vac. Sci. Technology A 21, pp 1198-1201; July/Aug 2003; American Vacuum Society; US	

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		SUN, X. et al.; "Composite electrodes made of Pt nano-particles deposited on carbon nanotubes grown on fuel cell backings"; Chemical Physics Letters 379; pp 99-104; no month, 2003; Elsevier Science B.V.; Amsterdam, The Netherlands	
		TOMIOKA, Y. et al.; "Magnetic-field-induced metal-insulator phenomena in Pr1-xCaxMnO3 with controlled charge-ordering instability"; Phys. Rev. B Vol. 53, No. 4; pp R1689-R1692; January 15, 1996; American Physical Society; US	
		2006	
		TSIAKARIS, P.E., et al. "The oxidation of ethanol over Pt catalyst-electrodes deposited on Zro[sub]2"; abstract only; Solid State Ionics 152-153, 721-726 (2002) Elsevier Science B.V.; Amsterdam, The Netherlands	
		VELEV, O.D. et al.; "A class of porous metallic nano-structures"; Nature Vol. 401, p 548; October 7, 1999; Nature Publishing Group; Macmillan Publishers Ltd.; US	
		VRBANIĆ, D. et al; "Air-stable Monodispersed Mo6S3I6 nanowires"; Nanotechnology 15, pp 635-638; no month, 2004; Institute of Physics Publishing; US	
		WALTERS, D.A. et al; "Elastic strain of freely suspended single-wall carbon nanotube ropes"; Applied Physics Letters Vol. 74 No. 25; pp3803-3805; June 21, 1999; American Institute of Physics; US	
		WANG, C. et al.; "Proton Exchange Membrane Fuel Cells with Carbon Nanotube Based Electrodes"; Nano Letters Vol. 4, No. 2; pp 345-348; December 30, 2004; American Chemical Society; US	
		2003	
		WANG, J et al.; "Morphological Effectson the Electrical and Electrochemical Properties of Carbon Aerogels"; Journal of the Electrochemical Society 148, pp D75-D77; no month, 2001; The Electrochemical Society, Inc.; US	
		WEISSMULLER, J. et al. in Science 300, pp 312-315; April 11, 2003; American Association for the Advance-ment of Science, Washington, DC; US	

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		WU, Y. et al.; "Superconducting MgB2 Nanowires"; Ad-vanced Materials 13, No. 19; pp 1487-1489; October 2, 2001; Wiley-VCH, Verlag GmbH & Co. KgaA, Wein-heim, Germany	
		XI, X. et al.; "Electric field effect in high Tc supercon-ducting ultrathin YBa2Cu3O7-x films"; Applied Physics Letters 59 (26); pp 3470-3472; December 23, 1991; American Institute of Physics; US	
		XU, L. et al; "Synthesis and Magnetic Behavior of Peri-odic Nickel Sphere Arrays"; Advanced Materials 15, pp. 1562-1564; September 2003; Wiley-VCH, Verlag GmbH & Co. KgaA; DE	
		XU, L. et al.; "Metal Sphere Photonic Crystals by Nano-molding"; J. Am. Chem. Soc. 123, pp 763-764; January 9, 2001; American Chemical Society; US	
		YU, G. et al.; "Polymer Photovoltaic Cells, enhanced Efficiencies via a Network on Internal Donor-Acceptor Heterojunctions"; Science 270, pp 1789-1791; December 15, 1995; American Association for the Advancement of Science, Washington, DC; US	
		YU, J.-S. et al.; "Fabrication of Ordered Uniform Porous Carbon Networks and Their Application to a Catalyst Supporter"; J. Am. Chem. Society 124, pp 9382-9383; July 19, 2002; American Chemical Society; US	
		ZAKHIDOV, A. et al.; "Carbon Structures with Three-Dimensional Periodicity at Optical Wavelengths"; Science 282; pp 897-901; October 30, 1998; American Association for the Advancement of Science, Washing-ton, DC; US	
		ZHANG, S.S. et al.; "A Novel Electrolyte Solvent for Rechargeable Lithium and Lithium-Ion Batteries"; J. Electrochemical Society, Vol. 143, No. 12; pp 4047-4053; December 1996; The Electrochemical Society, Inc.; US	
		ZHANG, Y. et al., "Electric-field-directed growth of aligned single-walled carbon nanotubes"; Applied Physics Letters 79, 3155-3157; November 5, 2001; American Institute of Physics; US	

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